

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1. **(Currently Amended)** An optical coupling system comprising:

 a post having first and second ends, wherein the post has a height of between about 30 microns and about 250 microns;

 a microlens situated on the first end of said post; and

 a window comprising glass and having a first side proximate to said microlens and having a second side.

2. **(Original)** The system of claim 1, wherein:

 the second end of said post is an input for light; and

 the second side of said window is an exit for the light.

3. **(Currently Amended)** The system of claim 2, wherein:

 the exit for the light ~~may be~~ proximate to an optical fiber; and

 the input may be proximate to a light source.

4. **(Currently Amended)** The system of claim 3, wherein:

 said post comprises an epoxy material; and

 said microlens comprises an epoxy material; ~~and~~

~~said window comprises glass.~~

5. **(Currently Amended)** The system of claim 3, wherein the optical fiber ~~is~~may be single mode fiber.
6. **(Original)** The system of claim 5, wherein the optical fiber is in contact with the second side of said window.
7. **(Original)** The system of claim 5, wherein the optical fiber is at a distance from the second side of said window.
8. **(Currently Amended)** The system of claim 5, wherein the light source ~~is~~may be a vertical cavity surface emitting laser (VCSEL).
9. **(Original)** The system of claim 5, wherein said post is situated proximate to the light source and on a wafer having the light source.
10. **(Original)** The system of claim 5, wherein said microlens is a spherical lens.
11. **(Original)** The system of claim 10, wherein said microlens is an ink-jet formed lens.
12. **(Original)** The system of claim 5, wherein said microlens is an aspherical lens.

13. **(Currently Amended)** An optical coupling system comprising:
an array of posts, wherein each post has a height of between about 30 microns and about 250 microns;
a microlens situated on a first end of each post of said array of posts; and
a window comprising glass and having a first surface proximate to each microlens of said array of posts.
14. **(Original)** The system of claim 13, wherein:
each post has a second end proximate to a radiation source; and
a second surface of said window is proximate to an optical fiber for receipt of radiation from each microlens of said array of posts.
15. **(Original)** The system of claim 13, wherein:
each post has a second end proximate to a detector; and
a second surface of said window is proximate to an optical fiber corresponding to each microlens.
16. **(Original)** The system of claim 14, wherein:
each post comprises an epoxy material; and
each microlens comprises an epoxy material.
17. **(Canceled)**

18. **(Original)** The system of claim 14, wherein the optical fiber is single mode fiber.

19. **(Original)** The system of claim 18, wherein the radiation source is a VCSEL.

20. **(Original)** The system of claim 18, wherein the optical fiber is spaced at a distance from the second surface of said window.

21. **(Original)** The system of claim 18, wherein the optical fiber is in contact with the second surface of said window.

22. **(Original)** The system of claim 18, wherein each microlens is a spherical lens.

23. **(Original)** The system of claim 18, wherein each microlens is an aspherical lens.

24. **(Original)** The system of claim 23, wherein each microlens is an ink-jet formed lens.

25. **(Currently Amended)** An optical coupling system comprising:
- a substrate having a plurality of optoelectronic elements formed on said substrate;
 - a plurality of posts formed over the plurality of optoelectronic elements on said substrate;
 - a plurality of lenses formed on said posts;
 - a window comprising glass being situated proximate to said plurality of lenses, wherein the window is about 300 microns thick; and
 - a plurality of optical fibers proximate to said window.
26. **(Original)** The system of claim 25, wherein the optoelectronic elements are light sources.

27. **(Currently Amended)** An optical coupling system comprising:
an optoelectronic element;
a place for an end of an optical medium; and
a lens situated between said optoelectronic element and place for an end of optical medium, wherein the lens has a thickness of between about 20 microns and about 600 microns;
and
a substrate comprising glass and having a first side proximate to said lens and having a second side.
28. **(Original)** The system of claim 27, wherein said lens is an aspherical lens.
29. **(Original)** The system of claim 28, wherein said medium is an optical fiber.
30. **(Original)** The system of claim 29, wherein said place for an end of an optical medium is a fiber stop.
31. **(Original)** The system of claim 30, wherein said aspherical lens comprises a non-glass material.
32. **(Original)** The system of claim 31, wherein said optoelectronic element is a detector.
33. **(Original)** The system of claim 31, wherein said optoelectronic element is a light source.

34. **(Original)** The system of claim 33, wherein said light source is a vertical cavity surface emitting laser.
35. **(Original)** The system of claim 34, wherein the said aspheric lens comprises a plastic material.
36. **(Original)** The system of claim 35 wherein said optical fiber is single mode optical fiber.

37. **(Currently Amended)** An optical coupling system comprising:
an optoelectronic element situated about an optical axis;
an aspherical lens situated about the optical axis, wherein the aspherical lens has a thickness of between about 20 microns and about 600 microns; and
a place for an optical fiber situated about the optical axis; and
a substrate comprising glass and having a first side proximate to said aspherical lens and having a second side.
38. **(Original)** The system of claim 37, wherein said aspherical lens comprises a non-glass material.
39. **(Original)** The system of claim 38, wherein said optoelectronic element is a detector.
40. **(Original)** The system of claim 38, wherein said optoelectronic element is a light source.
41. **(Original)** The system of claim 40, wherein said optoelectronic element is a vertical cavity surface emitting laser.
42. **(Original)** The system of claim 41, wherein said optical fiber is a single mode fiber.
43. – 45. **(Canceled)**